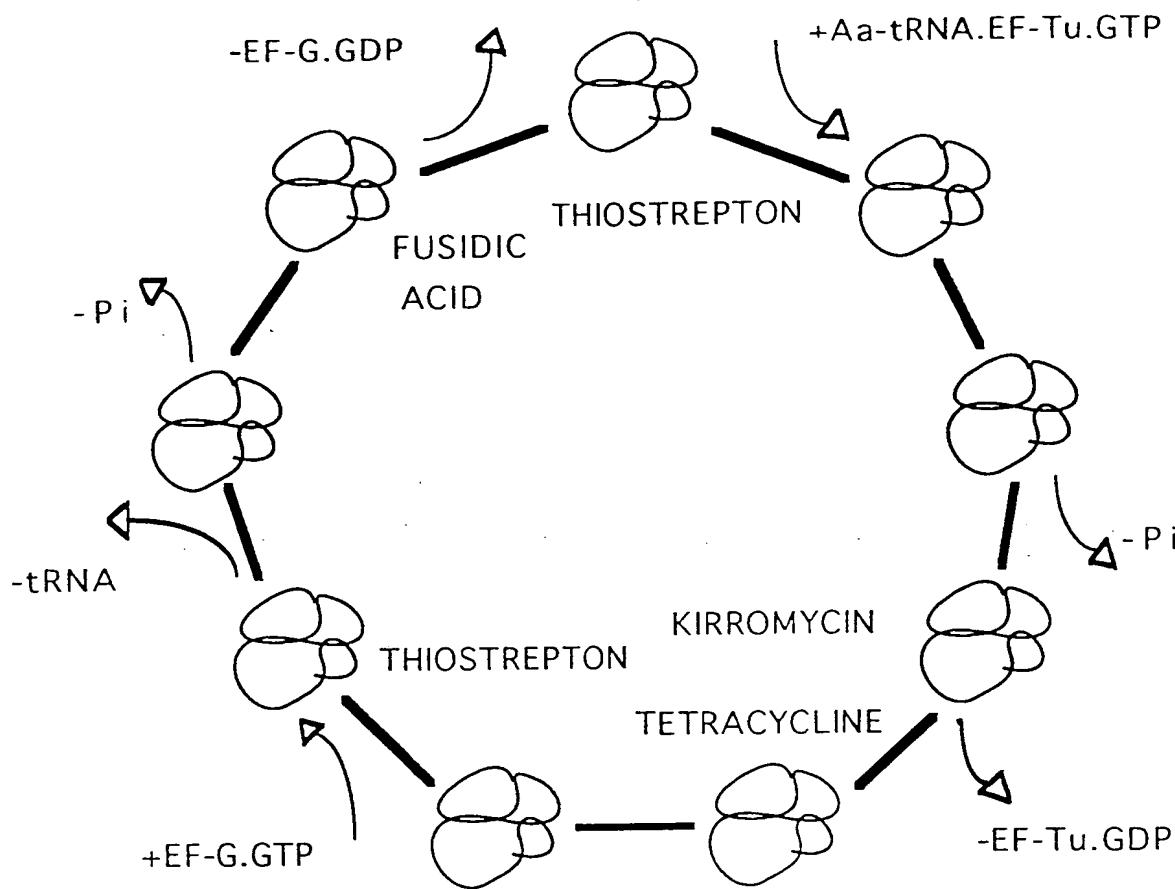


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Fig. 1



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Figure 2A

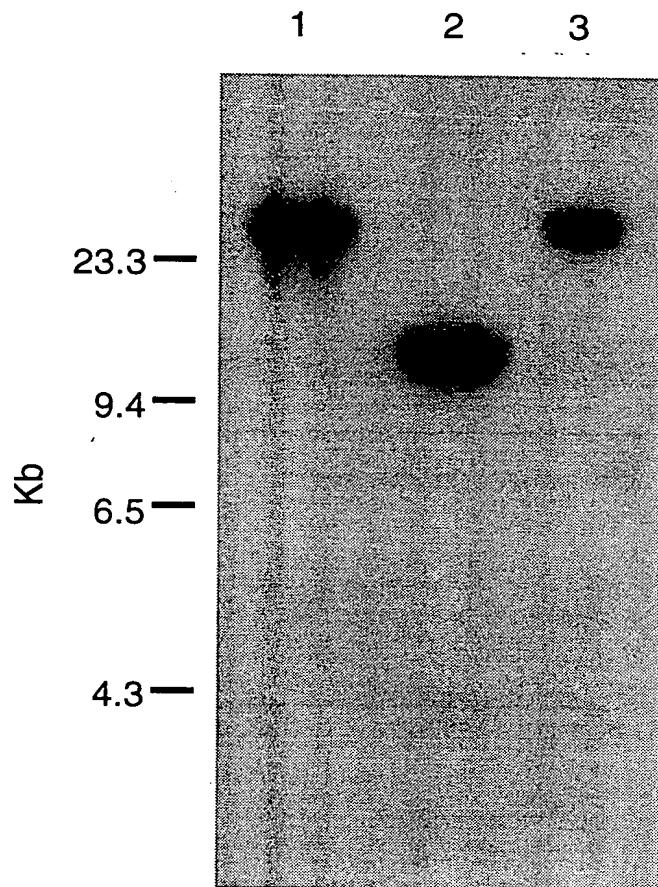
	10	20	30	40	50	
eftu_anani	1 MARNFERF	PHANIGTIGH	/DHGKTTLTA	AITTVLAKAS	MAKAPAY--A	50
eftu_cryph	1 MARNFERSH	PHVNIGTIGH	/DHGKTTLTA	AI SATL-SRY	TKNSKNE--	50
eftu_cyapa	1 MARNFERCINK	PHVNIGTIGH	/DHGKTTLTA	AITTALASQG	KGKAKRYD--	50
eftu_pf	1 MINKLEFLRNK	QHINLGTIGH	/DHGKTTLTA	AI SYLNLNG	LSK--KYNYS	50
eftu_ecoli	1 ISKEFEEPTK	PHVNIGTIGH	/DHGKTTLTA	AITTVLAKTY	GEAARAFDQ-	50
	60	70	80	90	100	
eftu_anani	51 DIDIAPEEKA	RGITINTAHV	SEYETCHRHYA	HVDCPGHADY	VKNMITGAAQ	100
eftu_cryph	51 EIDS-APEEKA	RGITINTAHV	SEYETDKRYYA	HVDCPGHADY	VKNMITGAAQ	100
eftu_cyapa	51 EIDA-APEEKA	RGITINTAHV	SEYETEKRHYA	HVDCPGHADY	VKNMITGAAQ	100
eftu_pf	51 DIDS-APEEKA	RGITINTSHI	SEYETLTHCA	HVDCPGHSDY	VKNMITGAAQ	100
eftu_ecoli	51 -IDNAPEEKA	RGITINTSHV	SEYDPTFHYA	HVDCPGHADY	VKNMITGAAQ	100
	110	120	130	140	150	
eftu_anani	101 MDGAILVVS	ADGMPMPQTRE	HILLAKQVGV	PNIVVFLNKE	DMVDDAELLE	150
eftu_cryph	101 MDGAILVCSA	ANGMPMPQTRE	HILLAKQVGV	PYIVVFLNKA	DMVDDDEELLE	150
eftu_cyapa	101 MDGAILVVS	ADGMPMPQTRE	HILLAKQVGV	PNMVVFLNKE	DMVDDADLL	150
eftu_pf	101 MDGAILVSI	IDGMPMPQTRE	HILLAKQIGI	KNITFLNKE	DMVDDVELID	150
eftu_ecoli	101 MDGAILVVAE	TDGMPMPQTRE	HILLGRDVGV	PYITVFLNKC	DMVDDDEELLE	150
	160	170	180	190	200	
eftu_anani	151 LVELEVRELL	SSYDFPGDDI	PIVAGSALQA	LEAIQGGASG	QKG-DNPWVD	200
eftu_cryph	151 LVQLEVQELL	EKYDFPGSEI	PIVAGSALLA	LEAVANNFTI	KRG-EDKWWD	200
eftu_cyapa	151 LVELEVRELL	SKYDFPGDQI	PIVSGSALLA	LESLSSNPKL	MRG-EDKWWD	200
eftu_pf	151 FIKLEVRELL	IKYNFDLNYI	HILTGSALNV	INI IOKNQDY	ELIKSNITWIQ	200
eftu_ecoli	151 LVELEVRELL	SSYDFPGDDI	PIVRGSALKA	LE-----	---GDAEWEA	200
	210	220	230	240	250	
eftu_anani	201 KIKLMEEV	AYIPTPEREV	DRPFLMAVED	VFTITGRGTV	ATGRIERGSV	250
eftu_cryph	201 TIYQLMKDKV	EYIPTPERET	DKAFLMAVED	VFSITGRGTV	ATGRIERGKV	250
eftu_cyapa	201 KIKLALMDAVID	EYIPTPERPI	DKSFLMAIED	VFSITGRGTV	ATGRIERGAI	250
eftu_pf	201 KLNLLIQIID	NII-1-IPTRKI	NDYFLMSIED	VFSITGRGTV	VTGKIEQGCI	250
eftu_ecoli	201 KILELAGFLD	SYIREPERAL	DKPFLLPIED	VFSISGRGTV	VTGRVERGII	250
	260	270	280	290	300	
eftu_anani	251 KVGETIEIVG	LRD--TRSTT	/TGDEMFKT	LDERGLAGDNV	GLLLRGIQKT	300
eftu_cryph	251 KVGETIEIVG	LPE--TRNTT	ITGLEMFQKS	LDEFLAGDNV	GILVRGIQKT	300
eftu_cyapa	251 KVGETVELVG	LKD--TKSTT	ITGLEMFQKT	LEEGMAGDN	GILLRGVQKT	300
eftu_pf	251 NLNDEIEILK	FEKSSPNLIT	/IGLEMFKQ	LTOAQSGDNV	GILLRNQKK	300
eftu_ecoli	251 KVGEVEIVG	IKETQ--KST	CTGDEMFRAL	LDEGRAGENV	GVLLRGIKRE	300
	310	320	330	340	350	
eftu_anani	301 DIERGMVLAK	PGSITPHTKF	ESEVYVLKNE	EGGPHTPFFP	GYRPQFYVRT	350
eftu_cryph	301 DIERGMVLAA	PGSITPHTKF	ESEVYVLTKE	EGGRHTPFFS	GYRPQFYVRT	350
eftu_cyapa	301 DIERGMVLAK	PGSITPHTKF	ESEVYVLTKD	EGGRHTPFFS	GYRPQFYVRT	350
eftu_pf	301 DIKPGMILAT	PNKLKVYKSF	IAETYLTLKE	EGGRHKPFI	GYKPQFFRT	350
eftu_ecoli	301 EIERGOVLAK	PGTIPKPHTKF	ESEVYI	EGGRHTPFFK	GYRPQFYFRT	350
	360	370	380	390	400	
eftu_anani	351 PDVTGAIISDF	TADDGSAEM	/I PGDRIKMT	VELINPIAIE	DGMRFAIREG	400
eftu_cryph	351 PDVTGTIAQF	TADDGSAEM	/MPGDRIMKT	AQLIHPIAIE	KGMRFAIREG	400
eftu_cyapa	351 PDVTGSIQF	TADDGSAEM	/MPGDRIMKT	VSUHPIAIE	DGMRFAIREG	400
eftu_pf	351 VDVTGEIKNI	-YLNENVQKV	AI PGDKITLH	IELKCMVLT	INAKFSIREG	400
eftu_ecoli	351 PDVTGTIEL-	-----PEGVEM	/MPGDNIKIV	VTLIHPIAMD	DGLRFAIREG	400
	410	420	430	440	450	
eftu_anani	401 GRTIGAGVVS	KILO.....	.....	.....	.....	450
eftu_cryph	401 GRTIGAGVVS	KIIE.....	.....	.....	.....	450
eftu_cyapa	401 GRTIGAGVVS	KIILK.....	.....	.....	.....	450
eftu_pf	401 GRTIGAGIT	EIKN.....	.....	.....	.....	450
eftu_ecoli	401 GRTVAGVVA	EVLS.....	.....	.....	.....	450

Fig. 2B

ATGAATAATAAATTATTTTAAGAAATAAACACATATAAA
TTTAGGTACTATAGGGCATGTAGATCATGGAAAAACTACAT
TAACAAACAGCTATATCTTATTAAATTACAAGGATTA
TCAAAAAAAATATAATTATTCAAGATATTGATTCACTCCAGA
AGAAAAAAATAAGAGGTATTACAATAAACACATATTG
AATATGAAACTTTAACAAAACATTGTGCTCATATAGATTGT
CCAGGACATTCCGATTATATTAAAAATGATTATAGGAGC
CACACAAATGGATATAGCAATTAGTAATATCTATAATAG
ATGGTATAATGCCTCAAACCTATGAACATTATTATTAATA
AAACAAATAGGTATAAAAATATAATTATTTTTAAATAA
AGAAGATTTATGTGATGATGTTGAATTAATAGATTTATAA
AATTAGAAGTAAATGAATTATTAATTAAATATAATTGAT
TTAAATTATACATATATTAACTGGTCAGCATTAAATGT
AATAAATATAATTCAAAAAATAAGGATTATGAATTAATAA
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GGTATTTATTAAAGAAATTCAAAAAAAAGATATAAAAG
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GGTGGTCGTATAAACCTTTAATATTGGATATAAACCTCA
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ATATATATTAAATGAAAATGTACAAAAAGTAGCTATACCT
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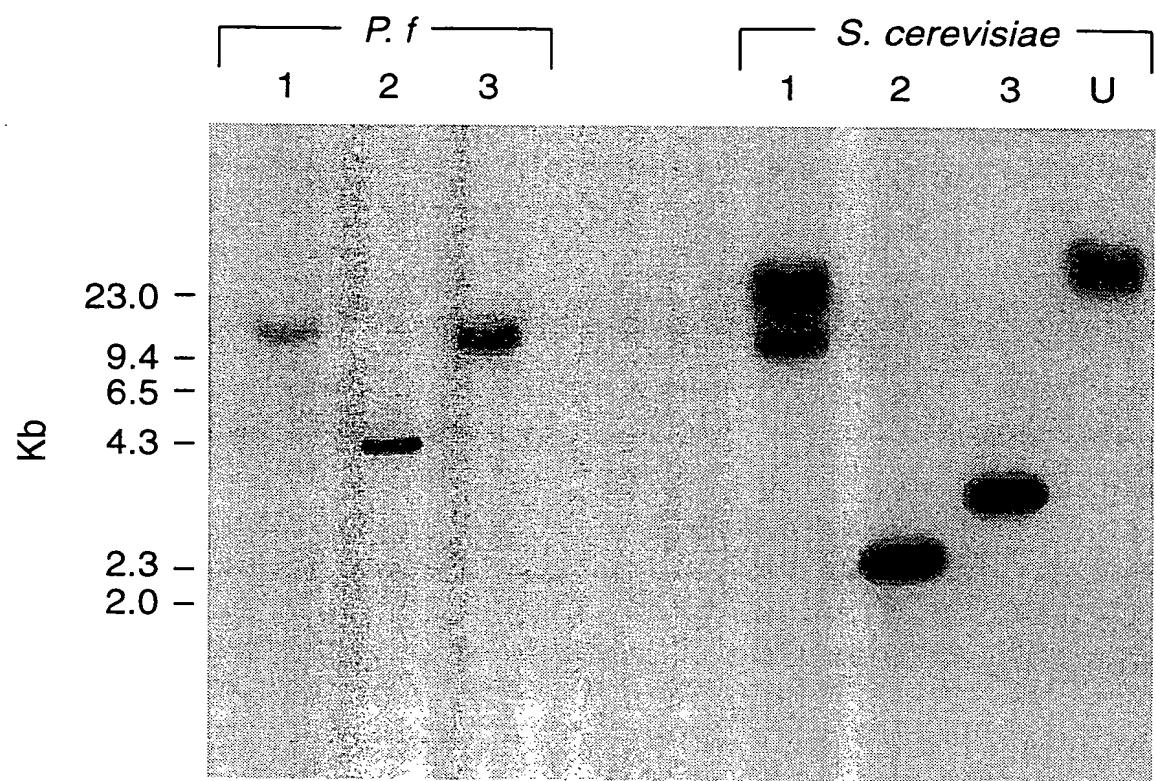
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Figure 3A



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Figure 3B



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Figure 4

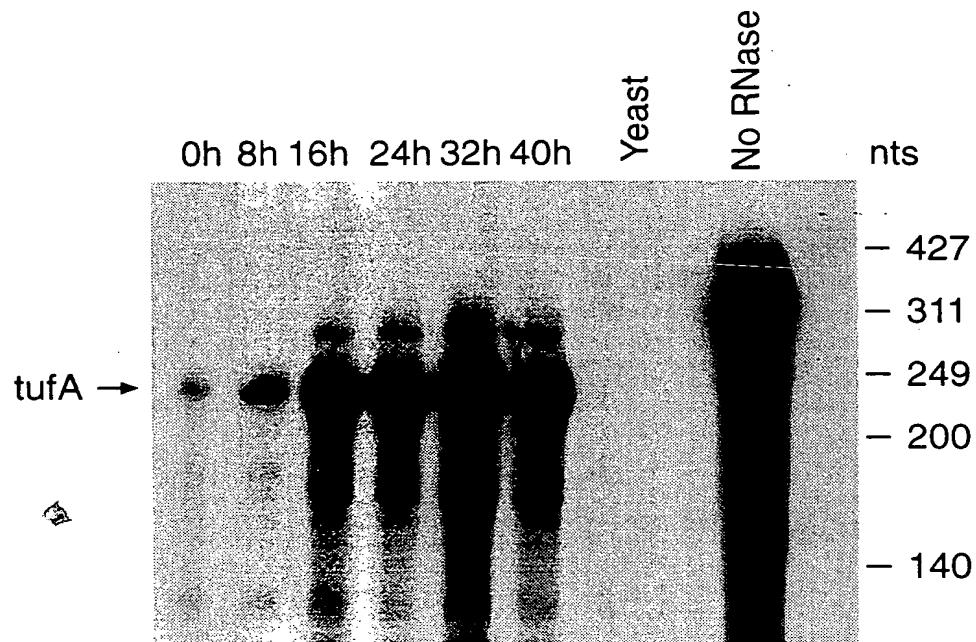
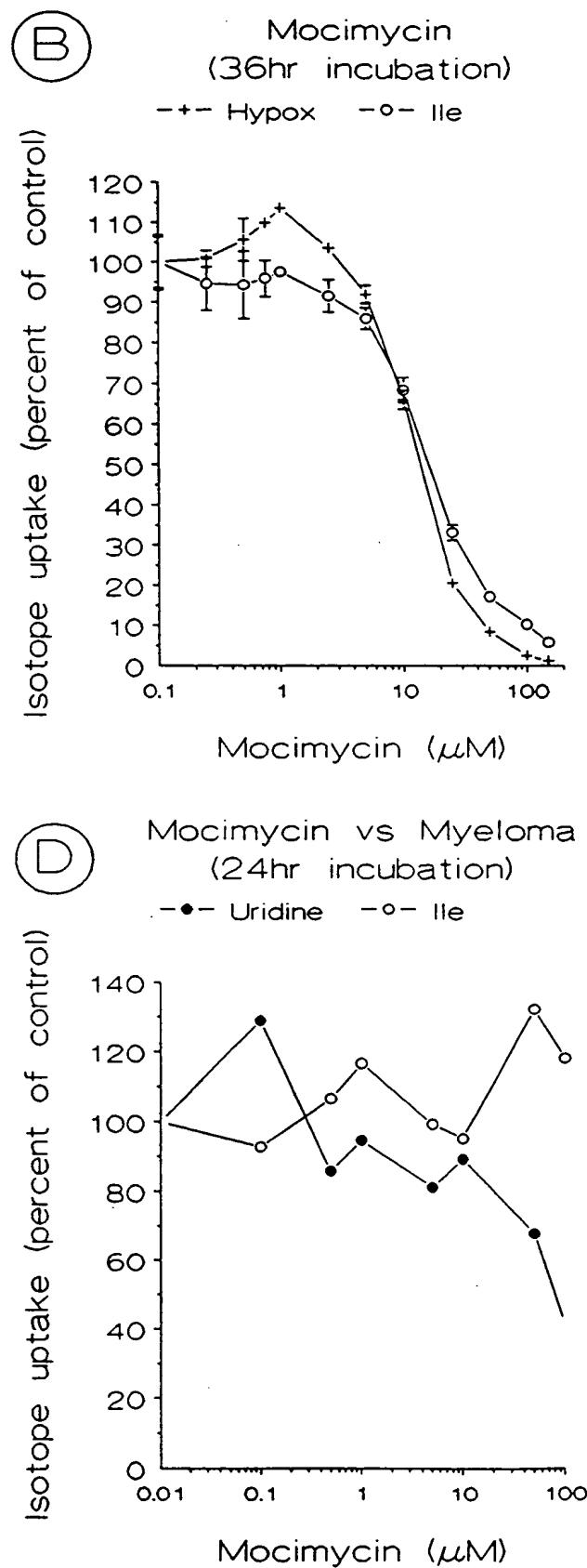
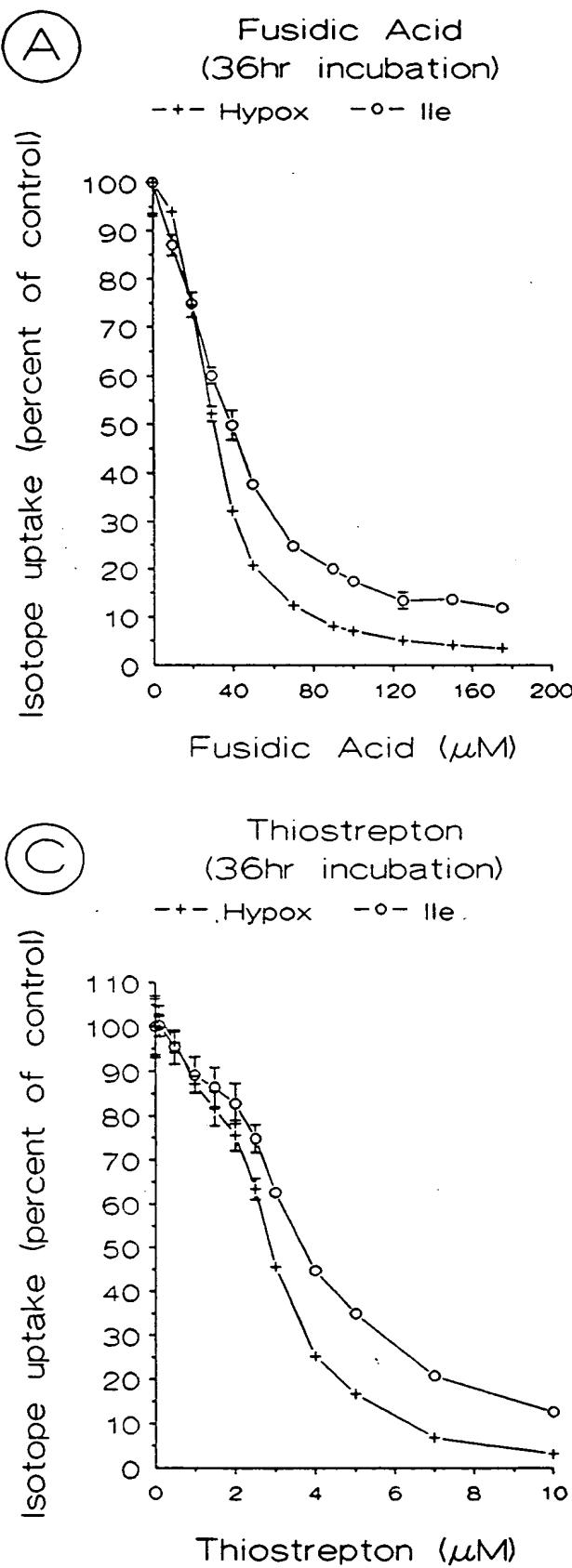


Figure 5

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Figure 5 (cont)

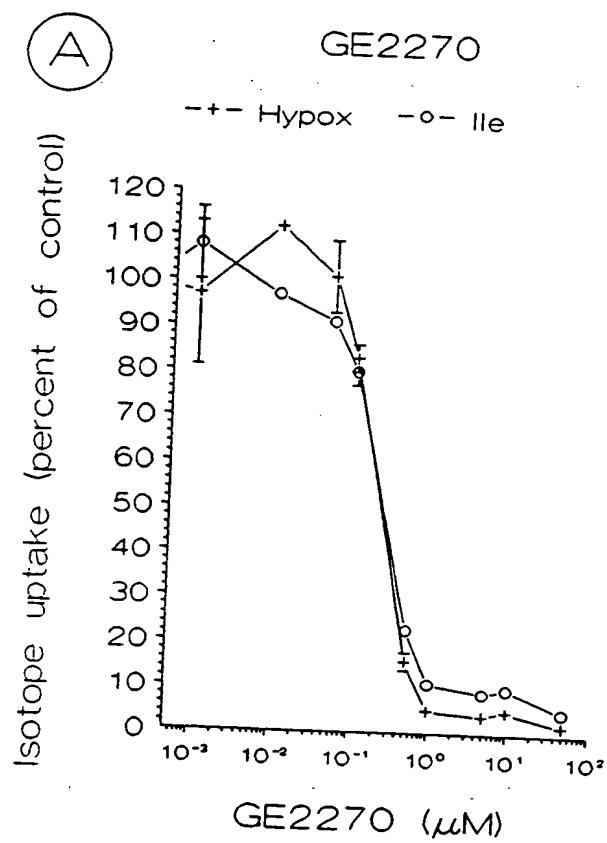


Figure 6

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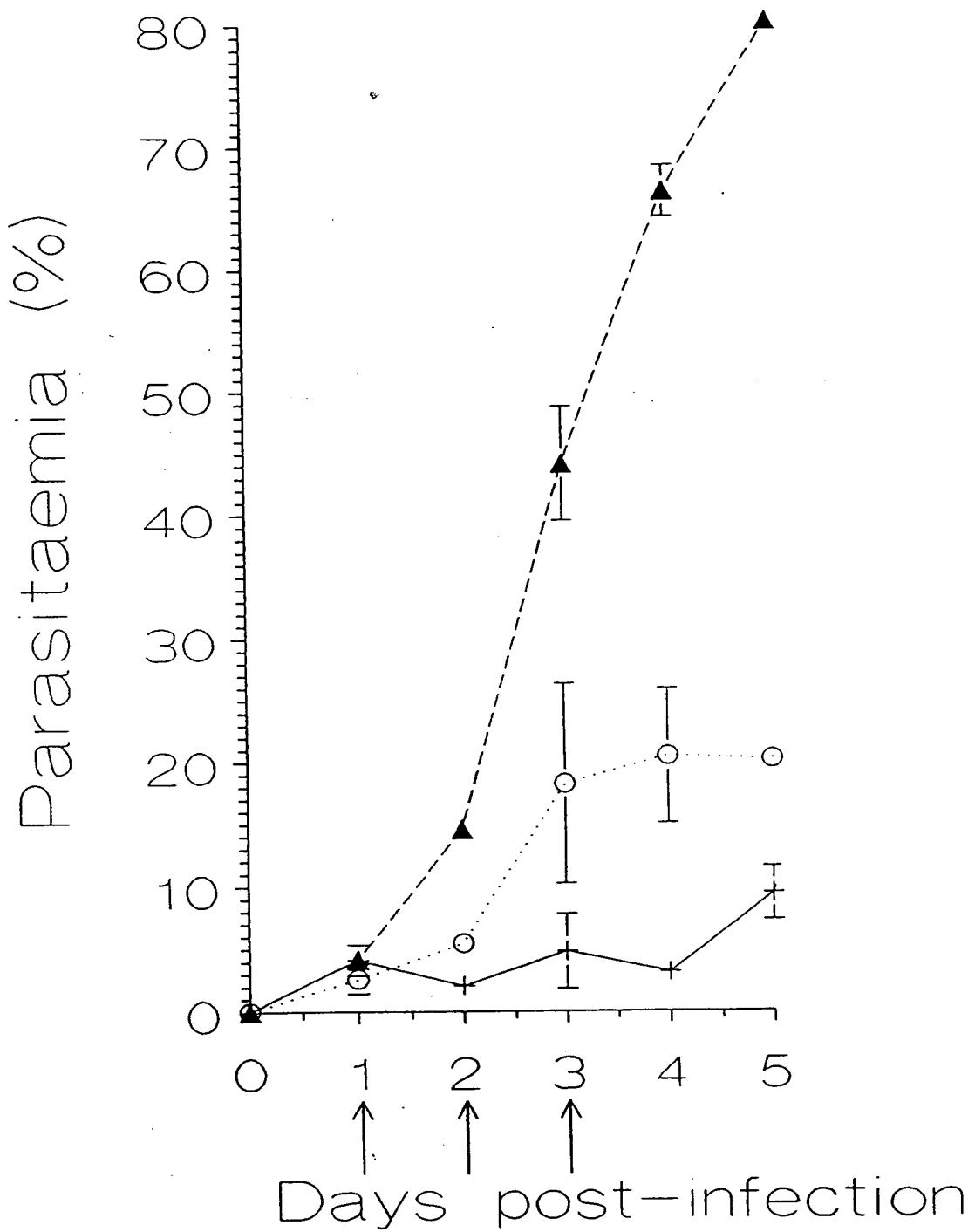
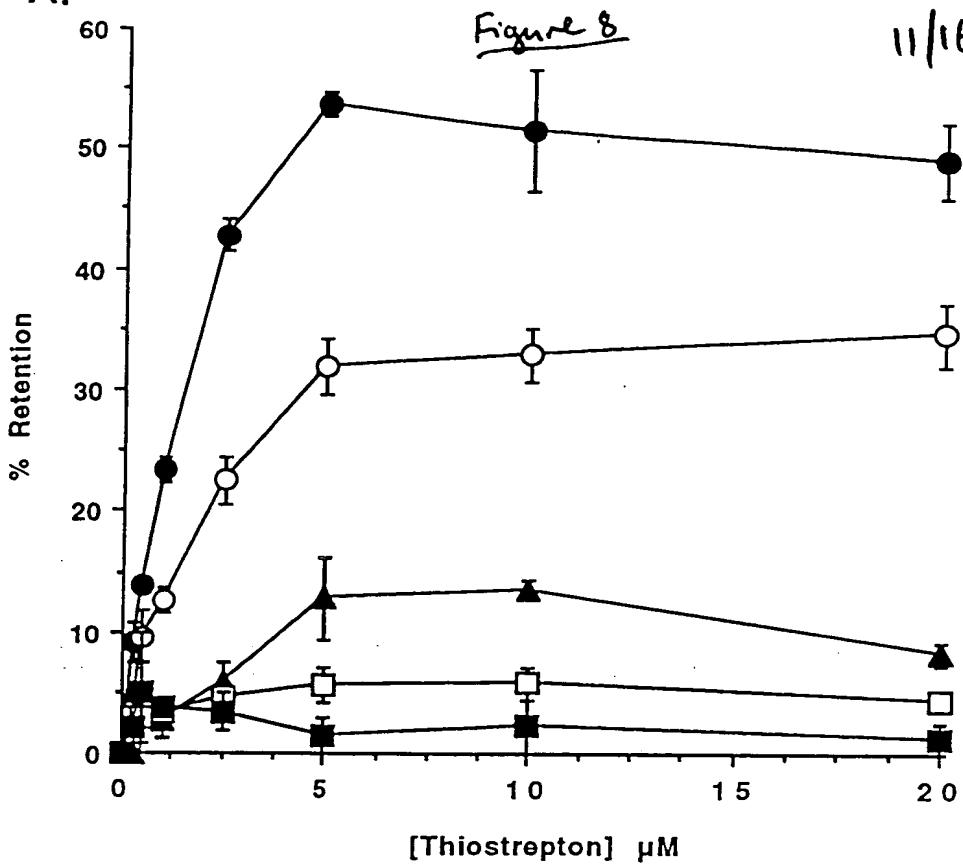


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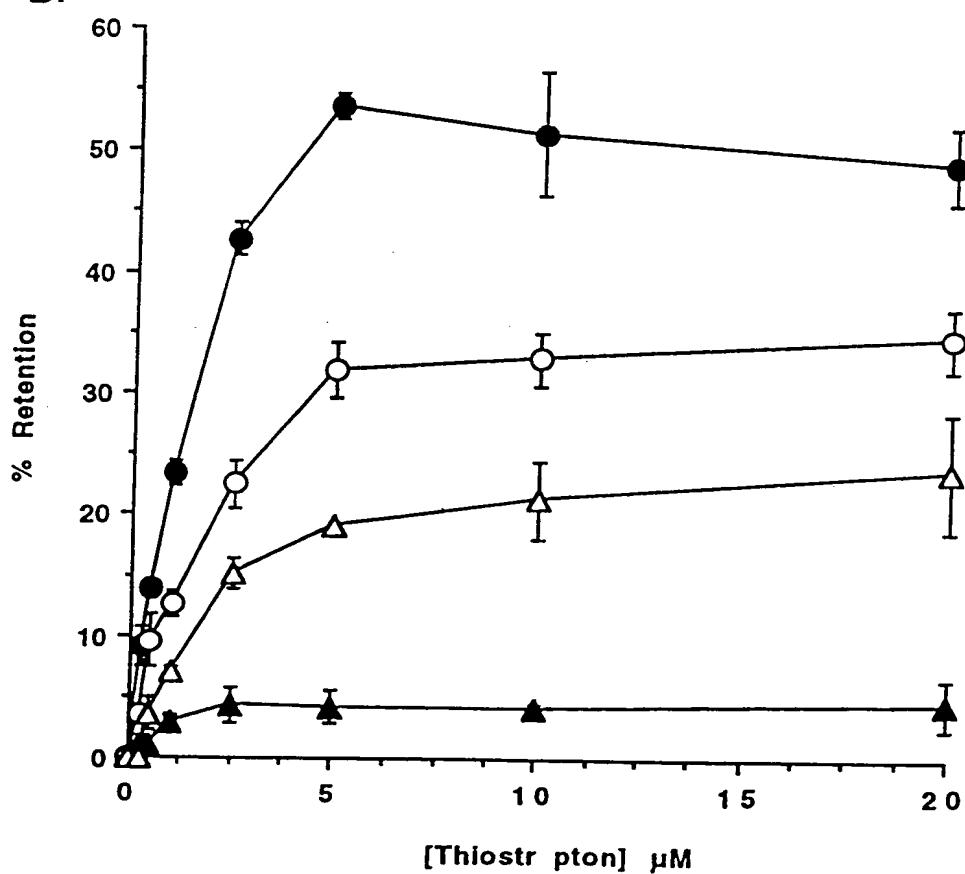
Sequence of the GTPase region of 23S_{pl} rRNAs

A mitochondrial
 A cytosolic U A A
 A 1077 (A) U U U A A
 A G C A G U U C U U P f A
 A A U A A G A A plastid I I G U G C
 A U A A G A A C U C G A A A
 G (A) U U A U A A A
 1067 A - U A - U
 G cytosolic U - A
 G mitochondrial U - A
 A - U
 A G C A G U U (U) U A A
 A A U U C C U Toxo A A G U G C G U
 A A G G A plastid I I I U U C G A A A
 G (A) U U C G A U U A A G - C
 A - U C - G
 C - G A - U

A.

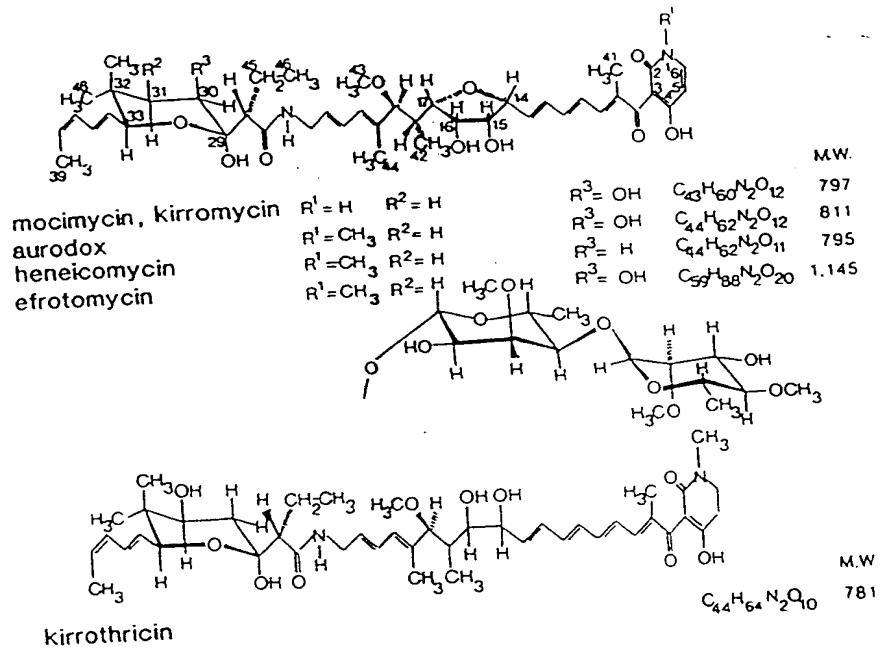


B.

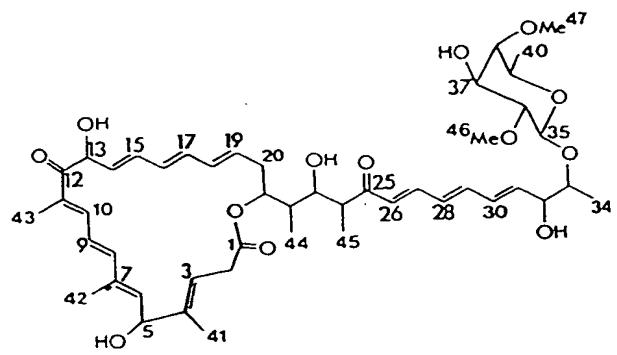


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Figure 9



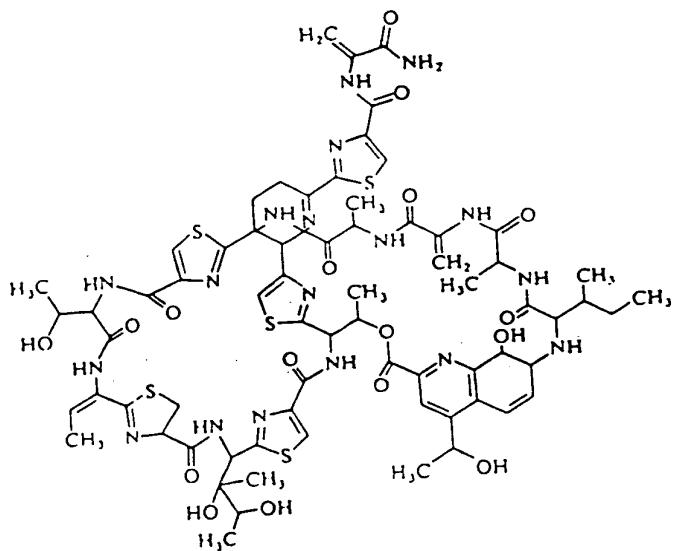
pulvromycin



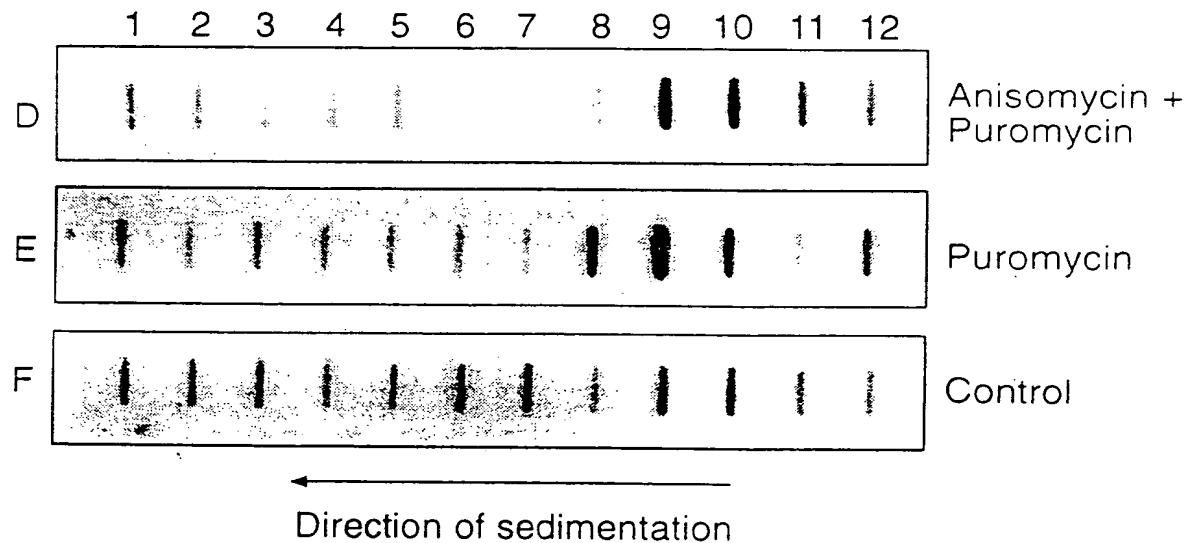
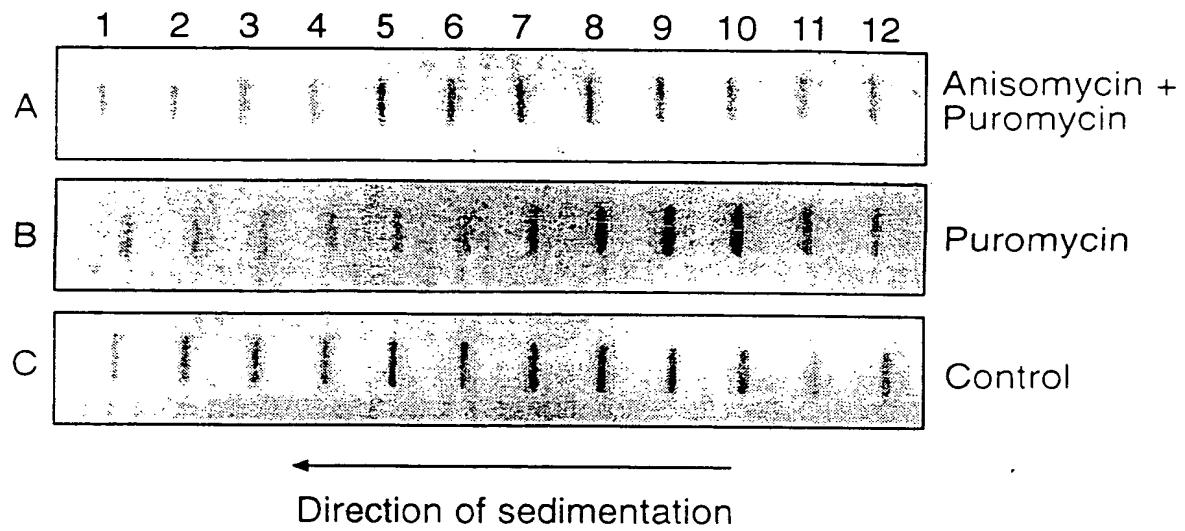
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Figure 10

Thiostrepton

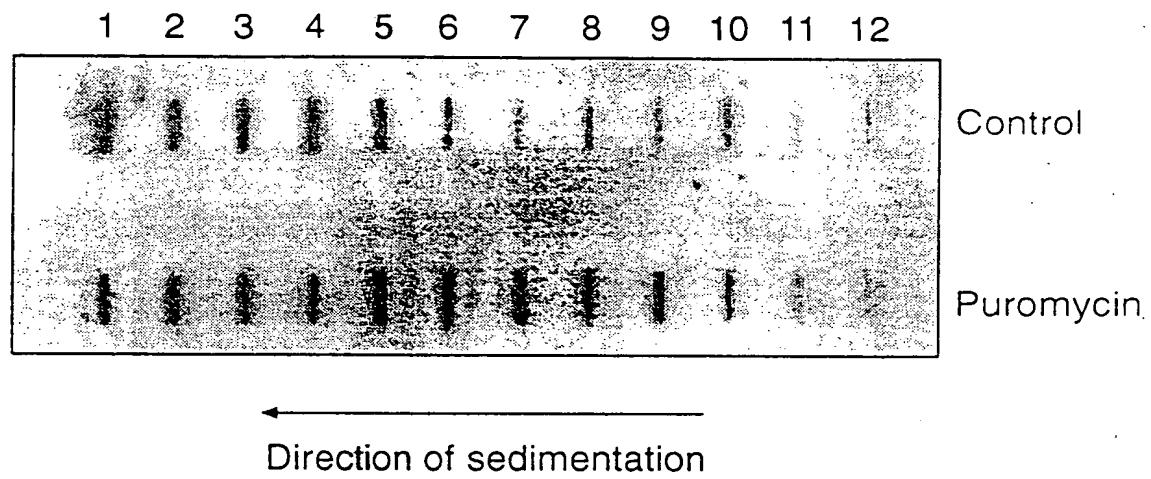


14116
Figure 11



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Figure 12



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Figure 13

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A

B

